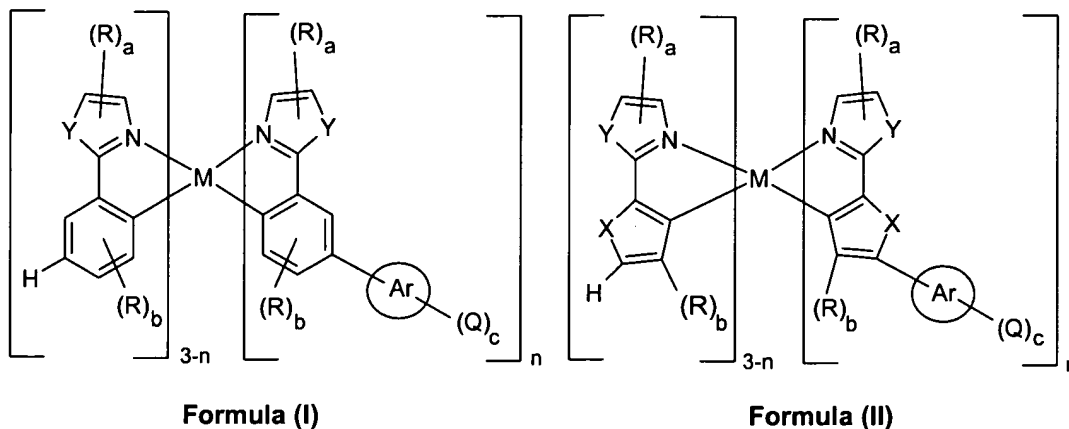


AMENDMENTS TO THE CLAIMS

1. (Currently amended) A compound of the formula (I) or (II),

Scheme 1

where the symbols and indices have the following meanings:

- M ~~is Rh, Ir;~~ is Rh or Ir;
- X ~~is O, S, Se;~~ is O, S or Se;
- Y ~~is S, O, R-C=C-R, R-C=N;~~ is S, O, R-C=C-R or R-C=N;
- R is identical or different on each occurrence and is H, F, Cl, NO₂, CN, a straight-chain or branched or cyclic alkyl or alkoxy group which has from 1 to 20 carbon atoms and in which one or more nonadjacent CH₂ groups ~~may be~~ is optionally replaced by -O-, -S-, -NR¹- or -CONR²- and one or more H atoms ~~may be~~ is optionally replaced by F, or an aryl or heteroaryl group which has from 4 to 14 carbon atoms and ~~may be~~ is optionally substituted by one or more, nonaromatic radicals R; where a plurality of substituents R, either on the same ring or on the two different rings, may together form a further monocyclic or polycyclic ring system;
- Ar is an aryl or heteroaryl group having from 1 to 40 carbon atoms;

Q is identical or different on each occurrence and is F, Cl, Br, I, CN, COOH, NH₂, OH, SH, NO₂, SO₃H, SiR₃ or a straight-chain or branched or cyclic alkyl or alkoxy group which has from 1 to 20 carbon atoms and in which one or more nonadjacent CH₂ groups ~~may be~~ is optionally replaced by -O-, -S-, -CO-, -COO-, -O-CO-, -NR¹-, -(NR²R³)⁺A⁻ or -CONR⁴- and one or more H atoms ~~may be~~ is optionally replaced by F, or an aryl or heteroaryl group which has from 4 to 14 carbon atoms and ~~may be~~ is optionally substituted by one or more, nonaromatic radicals R;

A⁻ is a singly charged anion or its equivalent;

R¹, R², R³ and R⁴ ~~R¹, R², R³, R⁴~~ are identical or different and are each H or an aliphatic or aromatic hydrocarbon radical having from 1 to 20 carbon atoms;

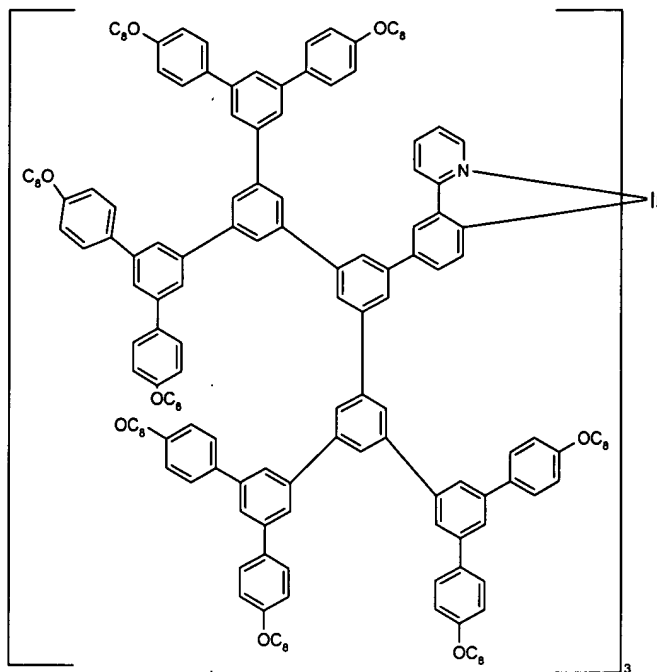
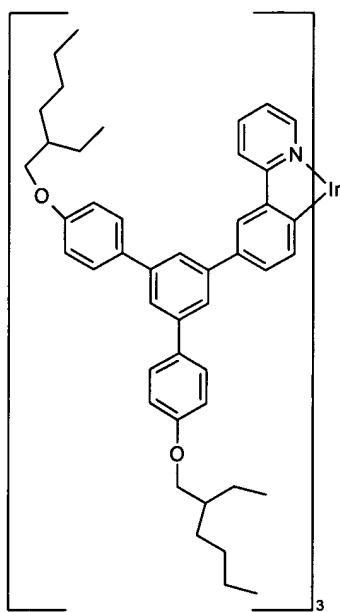
a is 0, 1, 2, 3 or 4, ~~preferably 0, 1 or 2,~~

b is 0, 1, 2 or 3, ~~preferably 0 or 1;~~

c is from 0 to 15, ~~preferably 0, 1, 2, 3, 4 or 5, particularly preferably 0, 1 or 2;~~

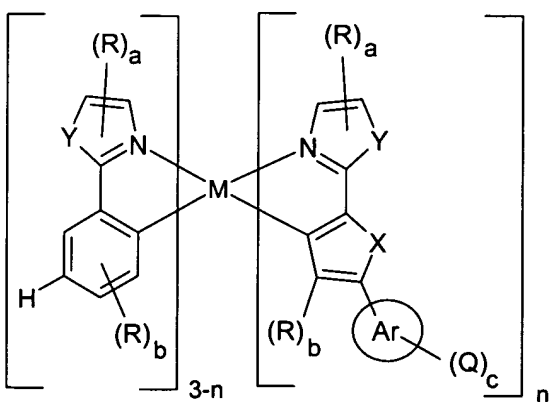
n is 1, 2 or 3;

with the exception of the compounds:

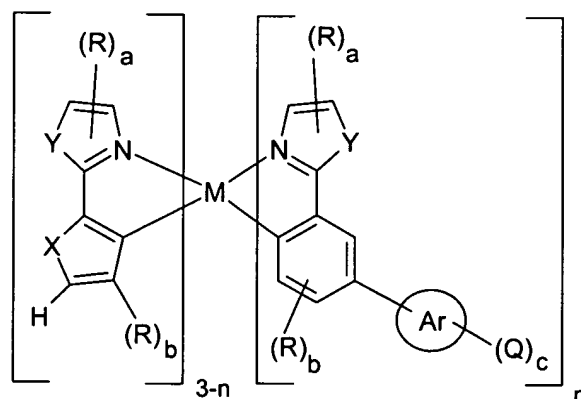


where C₈ is 2-ethylhexyl.

2. (Currently amended) A compound of the formula (Ia) or (IIa),



Formula (Ia)



Formula (IIa)

where the symbols and indices have the following meanings:

- M ~~is Rh, Ir;~~ is Rh or Ir;
- X ~~is O, S, Se;~~ is O, S or Se;
- Y ~~is S, O, R-C=C-R, R-C=N;~~ is S, O, R-C=C-R or R-C=N;
- R is identical or different on each occurrence and is H, F, Cl, NO₂, CN, a straight-chain or branched or cyclic alkyl or alkoxy group which has from 1 to 20 carbon atoms and in which one or more nonadjacent CH₂ groups ~~may be~~ is optionally replaced by -O-, -S-, -NR¹- or -CONR²- and one or more H atoms ~~may be~~ is optionally replaced by F, or an aryl or heteroaryl group which has from 4 to 14 carbon atoms and ~~may be~~ is optionally substituted by one or more, nonaromatic radicals R; where a plurality of substituents R, either on the same ring or on the two different rings, may together form a further monocyclic or polycyclic ring system;
- Ar is an aryl or heteroaryl group having from 1 to 40 carbon atoms;
- Q is identical or different on each occurrence and is F, Cl, Br, I, CN, COOH, NH₂, OH, SH, NO₂, SO₃H, SiR₃ or a straight-chain or branched or cyclic alkyl or alkoxy group which has from 1 to 20 carbon atoms and in which one or more nonadjacent CH₂ groups ~~may be~~ is optionally replaced by -O-, -S-, -CO-, -COO-, -O-CO-, -NR¹-, -(NR²R³)⁺A⁻ or -CONR⁴- and one or more H atoms ~~may be~~ is optionally replaced by F, or an aryl or heteroaryl group which has from 4 to 14 carbon atoms and ~~may be~~ is optionally substituted by one or more, nonaromatic radicals R;
- A⁻ is a singly charged anion or its equivalent;
- R¹, R², R³ and R⁴ ~~R¹, R², R³, R⁴~~ are identical or different and are each H or an aliphatic or aromatic hydrocarbon radical having from 1 to 20 carbon atoms;
- a is 0, 1, 2, 3 or 4, ~~preferably 0, 1 or 2,~~
- b is 0, 1, 2 or 3, ~~preferably 0 or 1;~~

c is from 0 to 15, ~~preferably 0, 1, 2, 3, 4 or 5, particularly preferably 0, 1 or 2;~~
n is 1, 2 or 3.

3. (Currently amended) The compound as claimed in claim 1 ~~and/or 2~~ in which the symbol ~~Y is O, S~~ Y is O or S.

4. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 3~~ claim 1, characterized in that ~~Y= R-C=C-R, R-C=N-~~ Y is R-C=C-R or R-C=N-.

5. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 4~~ claim 1, characterized in that $b = 0$.

6. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 5~~ claim 1, characterized in that Ar is an aryl group.

7. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 5~~ claim 1, characterized in that Ar is a heteroaryl group.

8. (Currently amended) The compound as claimed in claim 6 ~~claim 6 or 7~~, characterized in that the radical Ar is benzene, toluene, xylene, fluorobenzene, difluorobenzene, diphenyl, 1,2- or 1,3- or 1,4-terphenylene, tetraphenylene, naphthalene, fluorene, phenanthrene, anthracene, 1,3,5-triphenylbenzene, pyrene, perylene, chrysene, triptycene, [2.2]paracyclophane, pyridine, pyridazine, 4,5-benzo-pyridazine, pyrimidine, pyrazine, 1,3,5-triazine, pyrrole, indole, 1,2,5- or 1,3,4-oxadiazole, 2,2'- or 4,4'-diazabiphenyl, quinoline, carbazole, 5,10H-dihydrophenazine, 10H-phenoxazine, phenothiazine, xanthene, 9-acridine, furan, benzofuran, thiophene or benzothiophene.

9. (Currently amended) The compound as claimed in claim claim 6 ~~claim 6 or 7~~, characterized in that Ar is carbazole, N-alkylcarbazole, N-alkylphenoxazines, phenothiazine ~~and/or xanthene~~ or xanthene or a mixture thereof.

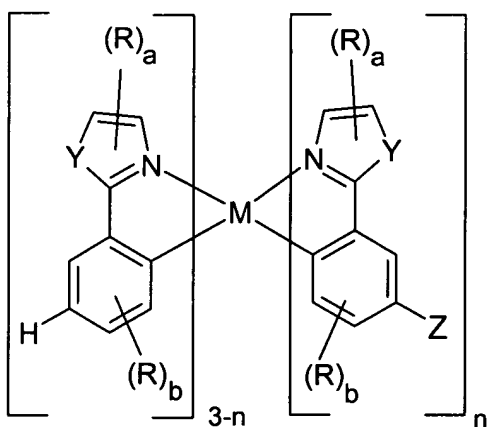
10. (Original) The compound as claimed in claim 6, characterized in that Ar is phenyl, 1- or 2-naphthyl, 1-, 2- or 9-anthracenyl.

11. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 10~~ claim 1, characterized in that Q is F, Cl, Br, CN, NO₂ SiR₃ or a straight-chain or branched or cyclic alkyl or alkoxy group which has from 1 to 6 carbon atoms and in which one or more adjacent CH₂ groups ~~may be~~ optionally replaced by -CF₂-.

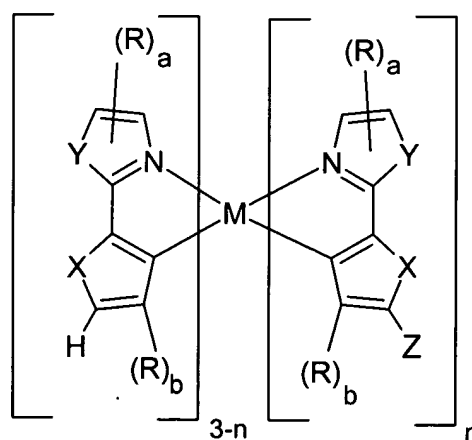
12. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 11~~ claim 1, characterized in that M = Ir.

13. (Currently amended) The compound as claimed in ~~one or more of claims 1 to 12~~ claim 1, characterized in that c is greater than or equal to 1.

14. (Original) A process for preparing compounds as claimed in claim 1, by reacting compounds of the formula (III) or (IV),



Formula (III)

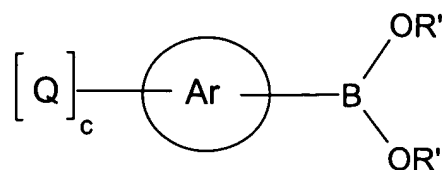


Formula (IV)

where the symbols and indices M, X, Y, R, a, b and n are as defined in claim 1, and

Z is Cl, Br or I,

with an arylboronic acid or an arylboronic ester of the formula (V)

**Formula (V)**

where the symbols and indices Q, Ar and c are as defined in claim 1, and:

R'R' is identical or different on each occurrence and is H or an aliphatic or aromatic hydrocarbon radical having from 1 to 20 carbon atoms, where a plurality of substituents ~~R' may form~~ R' optionally forms a monocyclic or polycyclic ring system,

in a reaction medium and in the presence of a transition metal or a transition metal compound, a phosphorus-containing or nitrogen-containing additive and a base.

15. (Currently amended) The compound as claimed in claim 1~~claim 1 or 2~~, characterized in that its purity (determined by means of ¹H-NMR and/or HPLC) is more than 99%.

16. (Currently amended) A mixture of one or more compounds of the formula (I) and/or the formula (II) ~~formula (I/Ia) and/or the formula (II/IIa)~~ as claimed in claim 1~~claim 1 or 2~~, with an unconjugated, partially conjugated or conjugated polymer.

17. (Original) The mixture as claimed in claim 16, characterized in that the polymer is selected from the group consisting of polyfluorenes, polyspirobifluorenes, poly-para-phenylenes, polycarbazoles, polyvinylcarbazoles, polythiophenes and copolymers comprising a plurality of the units mentioned here.

18. (Currently amended) The mixture as claimed in claim 16 ~~and/or 17~~, characterized in that the polymer is soluble in organic solvents.

19-21 cancelled

22. (Currently amended) An electronic component comprising a compound as claimed in claim 1 ~~one or both of claims 1 and 2 or a mixture as claimed in one or more of claims 16, 17 and 18.~~

23. (New) An organic electroluminescence and/or phosphorescence device which comprises the compound as claimed in claim 1.

24. (New) An emission layer which comprises the compound as claimed in claim 1.

25. (New) A solar cell or photovoltaic device which comprises the compound as claimed in claim 1.

26. (New) The solar cell or photovoltaic device as claimed in claim 25, wherein the solar cell or photovoltaic device is an organic photodetector, an organic solar cell, in an organic integrated circuits, in an organic field effect transistor, in an organic thin film transistor or in an organic solid-state laser.